

GAZI UNIVERSITY FACULTY OF MEDICINE
YEAR II 2021–2022 EDUCATIONAL YEAR
DIGESTIVE SYSTEM AND METABOLISM COMMITTEE
(31. 12. 2021 – 04. 03. 2022)

COURSES	THEORETICAL	LAB	TOTAL
Anatomy	26	5X4	31
Biophysics	8	-	8
Physiology	22	2X4	24
Histology and Embryology	12	5X4	17
Medical Biochemistry	44	6X2	50
TOTAL	110	18	128
Elective Courses	8		8
CSE		6	6
Medical English	8		8
TOTAL	126	24	150

02.03.2022	Wednesday	Phase II Applied Exam	Saat: 08.30
03.03.2022	Thursday	Phase II Applied Exam	Saat: 08.30
04.03.2022	Friday	Phase II Theoretical Exam	Saat: 09.00

Dean	Prof.Dr. Mustafa Necmi İLHAN
Vice Dean	Prof. Dr. İlyas OKUR
Vice Dean	Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof.Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Phase II Coordinator	Assoc. Prof. Dr . Gökçe S. ÖZTÜRK FİNCAN
Assistant Phase II Coordinator	Asist. Prof. Dr . Zeynep YIĞMAN (Eng)
Assistant Phase II Coordinator	Teach. Assist. Dr. Esra ÖZKOÇER
Assistant Phase II Coordinator	Teach. Assist. Dr. Pelin TÜRKKAN
Assistant Phase II Coordinator	Teach. Assist. Dr. Ece ALİM

MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY AND EMBRYOLOGY	PHYSIOLOGY	BIOPHYSICS	MEDICAL BIOCHEMISTRY
Dr. Meltem BAHÇELİOĞLU	Dr. Zeynep YIĞMAN	Dr. Şevin GÜNEY	Dr. Bahriye Sırav ARAL	Dr. Neslihan BUKAN
Dr. Kerem ATALAR	Dr. S. Esra ÖZKOÇER	Dr. Meltem SEVGİLİ		Dr. Mustafa KAVUTÇU
Dr. Ece ALİM	Dr. Duygu DAYANIR			Dr. Orhan CANBOLAT
				Dr. Aylin SEPİCİ DİNÇEL
				Dr. Cengiz KARAKAYA
				Dr. Kübranur ÜNAL

ANATOMY LAB.	HISTOLOGY AND EMBRYOLOGY LAB.	PHYSIOLOGY LAB.	MEDICAL BIOCHEMISTRY LAB.
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY	Dr. Cengiz KARAKAYA
Dr. Kerem ATALAR	Dr. Suna ÖMEROĞLU	Dr. Meltem SEVGİLİ	Dr. Kübranur ÜNAL
Dr. Ece ALİM	Dr. Gülnur Take KAPLANOĞLU	Dr. Pelin TÜRKKAN	
	Dr. Zeynep YIĞMAN	Dr. Hilal KORKMAZ	
	Dr. Esra ÖZKOÇER		
	Dr. Duygu DAYANIR		

Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
Clinical Skills Education Coordinator	Prof. Dr. Melda TÜRKOĞLU

DIGESTION AND METABOLISM COMMITTEE

Aim

Should be able to tell the embryonic development, developmental anomalies and malformations of the structures related to the digestive system, the anatomical and histological structure of the digestive system, the physiological functions and establish the connections with the clinic. Should be able to explain biochemical properties and energy metabolism of digestion.

LEARNING OUTCOMES

Knowledge Based

LO-200-3-1 Should be able to explain which germ leaves the digestive system develops from and in which weeks of development it occurs

LO-200-3-2 Should be able to explain anatomical, histological structures and physiological functions of organs in digestive tract

LO-200-3-3 Should be able to explain anatomical, histological structure and physiological functions of liver and biliary tract

LO-200-3-4 Should be able to explain the histological, anatomical structure and functions of the spleen and pancreas

LO-200-3-5 Should be able to explain the hormones secreted from digestive system

LO-200-3-6 Should be able to explain motor movements and secretory functions in digestive tract

LO-200-3-7 Should be able to say the events of digestion and absorption in the small intestine

LO-200-3-8 Should be able to explain vitamin and trace elements and energy mechanisms, regulation of body temperature

LO-200-3-9 Should be able to tell lipid, protein and fat metabolism

LO-200-3-10 Should be able to define thermodynamic systems, enthalpy and entropy, Heat transfer mechanisms: Heat transfer by convection, radiation and their physical formulations

LO-200-3-11 Should be able to have a problem-based approach to diseases

Application Based (practical skills)

LO-200-3-12 Should be able to demonstrate the ability to insert the nasogastric catheter

LO-200-3-13 Should be able to show digestive system structures on experimental animal

LO-200-3-14 Should be able to apply the studies in experimental subjects

Skills Based (intellectual and transferable skills)

LO-200-3-15 Should recognize the importance of cadaver and microscope studies

LO-200-3-16 Should recognize the importance of experimental animal in physiology education

LO-200-3-17 Should recognize that working with a living organ or subject is a responsibility

LO-200-3-18 Should be aware of the responsibility of behaving in a way that will not harm the living object

1. WEEK	27.12.2021 MONDAY	28.12.2021 TUESDAY	29.12.2021 WEDNESDAY	30.12.2021 THURSDAY	31.12.2021 FRIDAY
08:30-09:20					FREE STUDY TIME
09:30-10:20					FREE STUDY TIME
10:30-11:20					FREE STUDY TIME
11:30-12:20					FREE STUDY TIME
13:30-14:20					FREE STUDY TIME
14:30-15:20					FREE STUDY TIME
15:30-16:20					FREE STUDY TIME
16:30-17:20					FREE STUDY TIME

2. WEEK	03.01.2022 MONDAY	04.01.2022 TUESDAY	05.01.2022 WEDNESDAY	06.01.2022 THURSDAY	07.01.2022 FRIDAY
08:30-09:20	Digestive system embryology Dr. Dayanır	Regulation of glycolysis and energetics Dr. Bukan	Energy balance and transformation Dr. Sevgili	Anterior abdominal wall and abdominal cavity topography Dr. Atalar	The pentose phosphate pathway Dr. Dinçel
09:30-10:20	Digestive system embryology Dr. Dayanır	Gluconeogenesis Dr. Bukan	Regulation of body temperature Dr. Sevgili	Inguinal canal Dr. Atalar	The pentose phosphate pathway Dr. Dinçel
10:30-11:20	Mouth Dr. Atalar	Digestive system embryology Dr. Dayanır	Pharynx Dr. Alim	Glycogenesis and glycogenolysis Dr. Bukan	General principles of gastrointestinal function Dr. Güney
11:30-12:20	Mouth Dr. Atalar	Mouth Dr. Atalar	Oesophagus Dr. Bahçelioğlu	Glycogenesis and glycogenolysis Dr. Bukan	General principles of gastrointestinal function Dr. Güney
13:30-14:20	Mouth Dr. Atalar	MEDICAL ENGLISH	Reciprocal regulation of glycolysis and gluconeogenesis Dr. Bukan	Oral cavity, oesophagus and associated structures Dr. Yiğman	Gastrointestinal peptides Dr. Güney
14:30-15:20	Digestion of carbohydrates Dr. Bukan	MEDICAL ENGLISH	Utilization of other carbohydrates to glycolithic pathway Dr. Bukan	Stomach Dr. Alim	The citric acid cycle and regulation Dr. Karakaya
15:30-16:20	Aerobic and anaerobic glycolysis Dr. Bukan	ELECTIVE COURSE	Oral cavity, oesophagus and associated structures Dr. Yiğman	Small intestine Dr. Alim	The citric acid cycle and regulation Dr. Karakaya
16:30-17:20	FREE STUDY TIME	ELECTIVE COURSE	Oral cavity, oesophagus and associated structures Dr. Yiğman	FREE STUDY TIME	The citric acid cycle and regulation Dr. Karakaya

3. WEEK	10.01.2022 MONDAY	11.01.2022 TUESDAY	12.01.2022 WEDNESDAY	13.01.2022 THURSDAY	14.01.2022 FRIDAY
08:30-09:20	Digestion in the mouth and deglutation Dr. Güney	Anatomy Lab. 1	Alimentary canal Dr. Yiğman	Digestion and absorption of dietary fat Dr. Bukan	The respiratory chain, Oxidative Phosphorylation and ATP synthesis, Dr. Canbolat
09:30-10:20	Digestion in the mouth and deglutation Dr. Güney	Anatomy Lab. 1	Alimentary canal Dr. Yiğman	Digestion and absorption of dietary fat Dr. Bukan	The respiratory chain, Oxidative Phosphorylation and ATP synthesis, Dr. Canbolat
10:30-11:20	Biologic oxidation Dr. Canbolat	Anatomy Lab. 1	System: Energy and metabolic rate in biological systems Dr Aral	Liver and biliary tract Dr. Atalar	Liver Dr. Özkoçer
11:30-12:20	Biologic oxidation Dr. Canbolat	Anatomy Lab. 1	System: Energy and metabolic rate in biological systems Dr Aral	Liver and biliary tract Dr. Atalar	Liver Dr. Özkoçer
13:30-14:20	Large intestine and portal vein Dr. Alim	MEDICAL ENGLISH	Histology Lab. 1	Biochemistry Lab .1	Transport and storage of fat Dr. Bukan
14:30-15:20	Large intestine and portal vein Dr. Alim	MEDICAL ENGLISH	Histology Lab. 1	Biochemistry Lab .1	Transport and storage of fat Dr. Bukan
15:30-16:20	FREE STUDY TIME	ELECTIVE COURSE	Histology Lab. 1	Biochemistry Lab .1	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	ELECTIVE COURSE	Histology Lab. 1	Biochemistry Lab .1	FREE STUDY TIME

4. WEEK	17.01.2022 MONDAY	18.01.2022 TUESDAY	19.01.2022 WEDNESDAY	20.01.2022 THURSDAY YEAR III EXAM	21.01.2022 FRIDAY ENGLISH EXAM
08:30-09:20	FREE STUDY TIME	Anatomy Lab. 2	Pancreas and Gallbladder Dr. Özkoçer	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	Peritoneum Dr. Bahçelioğlu	Anatomy Lab. 2	Pancreas and Gallbladder Dr. Özkoçer	Synthesis, transport and excretion of cholesterol Dr. Karakaya	FREE STUDY TIME
10:30-11:20	Peritoneum Dr. Bahçelioğlu	Anatomy Lab. 2	Biosynthesis of fatty Acids Dr. Karakaya	Digestion of proteins, enzymes in stomach and intestines, effects of hormones Dr. Karakaya	FREE STUDY TIME
11:30-12:20	Regulation Feeding, Obesity and Starvation Dr. Sevgili	Anatomy Lab. 2	Oxidation of fatty acids Dr. Karakaya	Posterior abdominal wall, abdominal aorta and inferior vena cava Dr. Alim	FREE STUDY TIME
13:30-14:20	Biochemistry Lab .2 Histology Lab. 2	MEDICAL ENGLISH	Spleen and pancreas Dr. Atalar	Posterior abdominal wall, abdominal aorta and inferior vena cava Dr. Alim	FREE STUDY TIME
14:30-15:20	Biochemistry Lab .2 Histology Lab. 2	MEDICAL ENGLISH	Exercise Physiology Dr. Sevgili	Posterior abdominal wall, abdominal aorta and inferior vena cava Dr. Alim	FREE STUDY TIME
15:30-16:20	Biochemistry Lab .2 Histology Lab. 2	ELECTIVE COURSE	Exercise Physiology Dr. Sevgili	Synthesis, utilization and regulation of keton bodies Dr. Kavutçu	FREE STUDY TIME
16:30-17:20	Biochemistry Lab .2 Histology Lab. 2	ELECTIVE COURSE	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

24.01.2022-04.02.2022
SEMESTER HOLIDAY

5. WEEK	07.02.2022 MONDAY	08.02.2022 TUESDAY	09.02.2022 WEDNESDAY	10.02.2022 THURSDAY	11.02.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	Anatomy Lab. 3	Histology Lab. 3 Physiology Lab.1	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	Transamination, oxidative deamination Dr. Karakaya	Anatomy Lab. 3	Histology Lab. 3 Physiology Lab.1	FREE STUDY TIME	FREE STUDY TIME
10:30-11:20	Gastric ingestion, mechanical and chemical processes Dr. Güney	Anatomy Lab. 3	Histology Lab. 3 Physiology Lab.1	Role of biles in digestion Dr. Güney	Utilization of carbon skeletons of aminoacids in citric acid cycle Dr. Ünal
11:30-12:20	Gastric ingestion, mechanical and chemical processes Dr. Güney	Anatomy Lab. 3	Histology Lab. 3 Physiology Lab.1	Exocrine functions of pancreas Dr. Güney	Glycine synthesis, catabolism utilization of synthetic reaction Dr. Ünal
13:30-14:20	Biochemistry Lab .3	Clinical and radiographic Anatomy Dr. Bahçelioğlu	Functions of liver Dr. Güney	Urea cycle and its integration with citric acid cycle Dr. Karakaya	Thermodynamic systems, enthalpy and entropy; open, close and isolated systems Dr. Aral
14:30-15:20	Biochemistry Lab .3	Clinical and radiographic Anatomy Dr. Bahçelioğlu	Functions of liver Dr. Güney	Regulation of urea cycle and metabolic disorders Dr. Karakaya	Thermodynamic systems, enthalpy and entropy; open, close and isolated systems Dr. Aral
15:30-16:20	Biochemistry Lab .3	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	Biochemistry Lab .3	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

6. WEEK	14.02.2022 MONDAY	15.02.2022 TUESDAY	16.02.2022 WEDNESDAY	17.02.2022 THURSDAY	18.02.2022 FRIDAY
08:30-09:20	Metabolism of serine, Alanine, Cysteine, Methionine and threonine Dr. Ünal	Anatomy Lab. 4	Biochemistry Lab .5	CSE	Metabolism of Nucleic acids Dr. Canbolat
09:30-10:20	Metabolism of serine, Alanine, Cysteine, Methionine and threonine Dr. Ünal	Anatomy Lab. 4	Biochemistry Lab .5	CSE	Metabolism of Nucleic acids Dr. Canbolat
10:30-11:20	Exocrine functions of pancreas Dr. Güney	Anatomy Lab. 4	Biochemistry Lab .5	CSE	Clinical and radiographic Anatomy Dr. Bahçelioğlu
11:30-12:20	Mechanical and chemical events in small intestine Dr. Güney	Anatomy Lab. 4	Biochemistry Lab .5	CSE	Clinical and radiographic Anatomy Dr. Bahçelioğlu
13:30-14:20	Biochemistry Lab .4	Metabolism of branched chain amino acids Dr. Ünal	Physiology Lab.2 Histology Lab. 4	CSE	Metabolism of Histidine, Lysine, Hydrksilysine and aromatic Amino Acid Dr. Ünal
14:30-15:20	Biochemistry Lab .4	Metabolism of branched chain amino acids Dr. Ünal	Physiology Lab.2 Histology Lab. 4	CSE	Metabolism of Histidine, Lysine, Hydrksilysine and aromatic Amino Acid Dr. Ünal
15:30-16:20	Biochemistry Lab .4	FREE STUDY TIME	Physiology Lab.2 Histology Lab. 4	CSE	FREE STUDY TIME
16:30-17:20	Biochemistry Lab .4	FREE STUDY TIME	Physiology Lab.2 Histology Lab. 4	CSE	FREE STUDY TIME

7. WEEK	21.02.2022 MONDAY	22.02.2022 TUESDAY	23.02.2022 WEDNESDAY	24.02.2022 THURSDAY	25.02.2022 FRIDAY YEAR I EXAM
08:30-09:20	Absorbtion and secretion of small intestine Dr. Güney	Anatomy Lab. 5	FREE STUDY TIME	CSE	CSE
09:30-10:20	Functions of Colon Dr. Güney	Anatomy Lab. 5	General disorders of gastrointestinal tract Dr. Güney	CSE	CSE
10:30-11:20	Clinical and radiographic Anatomy Dr. Bahçelioğlu	Anatomy Lab. 5	Functions of vitamins and trace elements Dr. Güney	CSE	CSE
11:30-12:20	Clinical and radiographic Anatomy Dr. Bahçelioğlu	Anatomy Lab. 5	Metabolism of Nucleic acids Dr. Canbolat	CSE	CSE
13:30-14:20	Biochemistry Lab. 6 Histology Lab. 5	Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr Aral	Biosynthesis of Proteins and genetic code Dr. Canbolat	CSE	CSE
14:30-15:20	Biochemistry Lab. 6 Histology Lab. 5	Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr Aral	Biosynthesis of Proteins and genetic code Dr. Canbolat	CSE	CSE
15:30-16:20	Biochemistry Lab. 6 Histology Lab. 5	FREE STUDY TIME	FREE STUDY TIME	CSE	CSE
16:30-17:20	Biochemistry Lab. 6 Histology Lab. 5	FREE STUDY TIME	FREE STUDY TIME	CSE	CSE

8. WEEK	28.02.2022 MONDAY	01.03.2022 TUESDAY	02.03.2022 WEDNESDAY	03.03.2022 THURSDAY	04.03.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	FREE STUDY TIME	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	FREE STUDY TIME
09:30-10:20	FREE STUDY TIME	FREE STUDY TIME	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
10:30-11:20	Naturel potentials and electrical activities of tissues Dr. Aral	FREE STUDY TIME	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
11:30-12:20	Naturel potentials and electrical activities of tissues Dr. Aral	FREE STUDY TIME	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
13:30-14:20	Biosynthesis of Proteins and genetic code Dr. Canbolat	MEDICAL ENGLISH	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	FREE STUDY TIME
14:30-15:20	Posttranslational modifications Dr. Canbolat	MEDICAL ENGLISH	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	FREE STUDY TIME
15:30-16:20	FREE STUDY TIME	ELECTIVE COURSE	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	ELECTIVE COURSE	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	FREE STUDY TIME